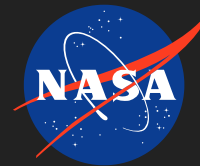


QuakeSim: Multi-Source Synergistic Data Intensive Computing for Earth Science

Completed Technology Project (2012 - 2015)



Project Introduction

Update QuakeSim services to integrate and rapidly fuse data from multiple sources to support comprehensive efforts in data mining, analysis, simulation, and forecasting.

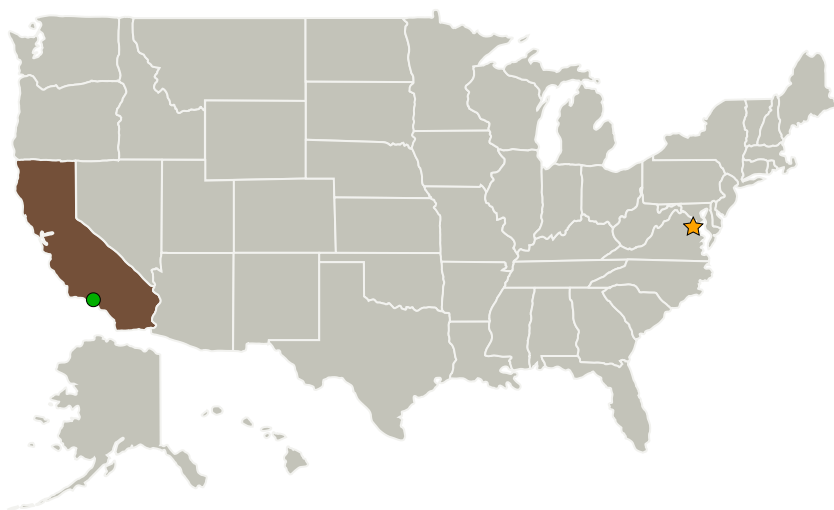
Extend QuakeSim infrastructure to include tiered publishing mechanisms and data provenance, trust, and history tracking.

Develop and deploy a Cloud Computing architecture to access and analyze large and heterogeneous data products and integrate them with earthquake models and simulations.

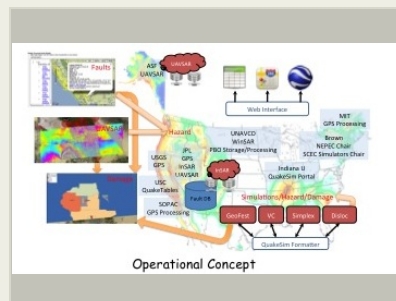
Anticipated Benefits

ICESAT-II

Primary U.S. Work Locations and Key Partners



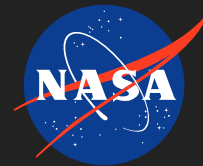
Organizations Performing Work	Role	Type	Location
★ NASA Headquarters(HQ)	Lead Organization	NASA Center	Washington, District of Columbia
● Jet Propulsion Laboratory(JPL)	Supporting Organization	NASA Center	Pasadena, California



Project Image QuakeSim: Multi-Source Synergistic Data Intensive Computing for Earth Science

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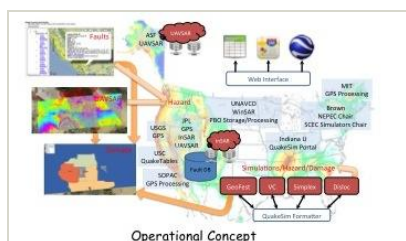
Project Introduction	1
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Primary U.S. Work Locations and Key Partners	1
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Project Management	2
Technology Maturity (TRL)	2
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Target Destination	3



Primary U.S. Work Locations

California

Images



10958-1360167325413.jpg

Project Image QuakeSim: Multi-Source Synergistic Data Intensive Computing for Earth Science
(<https://techport.nasa.gov/image/1600>)

Organizational Responsibility

Responsible Mission Directorate:

Science Mission Directorate
(SMD)

Lead Center / Facility:

NASA Headquarters (HQ)

Responsible Program:

Earth Science

Project Management

Program Director:

George J Komar

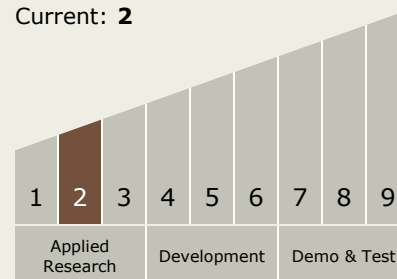
Principal Investigator:

Andrea Donnellan

Technology Maturity (TRL)

Start: **2**

Current: **2**



Technology Areas

Primary:

Continued on following page.

QuakeSim: Multi-Source Synergistic Data Intensive Computing for Earth Science

Completed Technology Project (2012 - 2015)



Technology Areas (cont.)

- TX11 Software, Modeling, Simulation, and Information Processing
 - └ TX11.4 Information Processing
 - └ TX11.4.4 Collaborative Science and Engineering

Target Destination

Earth